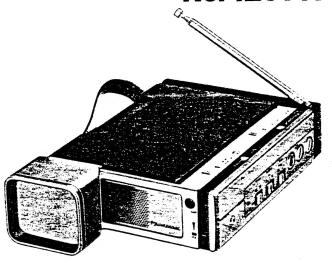
# service Ma

Black and White Television with Radio

R-100

Chassis

No. 1E01-A



The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

#### Specifications:

Television

Power Source:

Power Consumption: Antenna Impedance:

AC: 120V, 60Hz. DC: 6V AC: 4.9W.

DC: 1.8W

UHF/VHF FM Monopole

Antenna.  $75\Omega$ , Unbalanced type.

UHF/VHF/FM External

Antenna. 75 $\Omega$ , Unbalanced type. U.S.A. CCIR B&G U.K.

2-12 VHF: 2-13

UHF: 14-83 21-69

Intermediate

Frequency:

Receiving Channel:

Video:

38.9MHz

34.4MHz (USA Standard) Sound: 33.4MHz (CCIR Standard)

32.9MHz (UK Standard)

21-69

Integrated Circuits:

Semiconductor: (With Radio)

10 IC's

18 Transistors 37 Diodes 1 Thermistor Nominal Anode

Voltage: Picture Tube:

Dimensions:

Speaker: Automatic Circuit: 5.3KV (Zero Beam Current) 40CB4 1.5" 36 Deflection 1.% inches,  $16\Omega$ , Round type. Peak Automatic Gain Control

Saw-Tooth Automatic Frequency

Automatic Voltage Regulator Height:

 $1-\frac{1}{2}$  inches (40mm) 5- $\frac{5}{16}$  inches (135mm) Width: 6-% inches (166mm)

Depth:

1.8 lbs. (0.83kg)

Radio

Weight:

Radio Frequency

Range:

AM: 525-1605kHz 88-108MHz FM:

0.1W Audio Output:

Specifications are subject to change without notice.

# Panasonic.

Panasonic Company Division of Matsushita Electric Corporation of America One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Hawaii, Inc 320 Waiakamilo Road, Honolulu, Hawaii 96817 Panasonic Sales Company. Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 De Infanteria, KM 9.7 Victoria Industrial Park Carolina, Puerto Rico 00630 CODE NO. FTD7911-017

#### SAFETY PRECAUTIONS

#### **GENERAL GUIDELINES**

- It is advisable to insert an isolation transformer between the television set and the AC power line before servicing the chassis.
- In servicing, pay attention to the original lead dress, especially in the high voltage circuit. If a short circuit is found, replace all parts which have been overheated as a result the short circuit.
- After servicing, observe that all the protective devices such as insulation barriers, insulation papers, shields, isolation and R-C combinations, are properly installed.
- 4. Before turning the receiver on, check the resistance between the B+ line and chassis ground. Connect ⊕ side of an ohmmeter to B+ line and ⊕ side to ground. Each line should have more resistance than specified below.

B+ line	Minimum Resistance
6V	35Ω

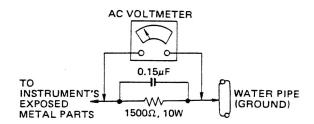
- 5. When the TV set will not be used for a long period of time, unplug the power cord from the AC line outlet.
- Potentials as high as 5.3kV are present when this receiver is operating. Operation of the receiver without the rear cover on involves danger of shock.
  - Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high-voltage equipment. Always discharge the anode of the picture tube to the receiver chassis before handling the tube.
- 7. After servicing make the following leakage current check to prevent the customer from undergoing shock hazard.

#### LEAKAGE CURRENT COLD CHECK

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Turn the receiver power switch on.
- 3. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metallic part such as screwheads, antennas, control shafts, handle bracket, etc. When the exposed metallic part has a return path to the chassis, the reading should be 1.8 megohm to 4 megohms. When the exposed metal does not have a return path to the chassis, the reading must be infinity.
- 4. Remove the jumper from the AC plug.

#### LEAKAGE CURRENT HOT CHECK

- Plug the AC cord directly into the AC outlet. Do not use an isolation transformer during this check.
- 2. Connect a 1500 ohm, 10 watt resistor, paralleled by a  $0.15\mu\text{F}$  capacitor between each exposed metallic part and a good ground like a water pipe as shown in Figure.
- 3. Use an AC voltmeter with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- Move the resistor connection to each exposed metallic part and measure the voltage.
- 5. Reverse the polarity of the AC plug in the AC outlet and repeat the above measurement. .
- 6. The potential must not exceed 0.75 volt RMS, from any exposed metal part to ground. In case any of the measurements are not with in the limits specified, there is a possibility of a shock hazard and the receiver should be repaired and rechecked before it is returned to the customer.



#### X-RADIATION

**WARNING:** The potential source of X-Radiation in TV sets is the picture tube.

**NOTE:** It is important to use an accurate, periodically calibrated, high voltage meter.

- 1. Turn the Brightness control fully counterclockwise.
- 2. Measure the High Voltage. The high voltage meter should indicate a nominal 5.3 kV and the maximum 6.0 kV. If the upper meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- 3. To prevent a possibility of x-radiation, it is essential to use the specified picture tube.

#### IMPORTANT SAFETY NOTICE

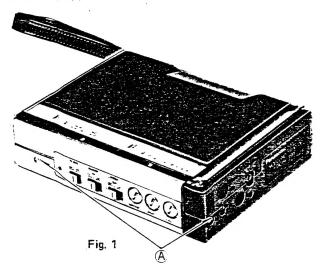
There are special components used in Panasonic TV sets which are important for safety. These parts are shaded on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of Matsushita Electric.

The electrical parts used in this model-such as the resistors, the capacitors and the transistors, are smaller than the same parts used in conventional models. Very painstaking and careful servicing techniques, therefore, are necessary for this model.

# DISASSEMBLY INSTRUCTIONS -

#### UPPER CABINET REMOVAL

- 1. Remove 2 screws (a) and 2 screws (b) as shown in Fig. 1, 2.
- 2. Lift up upper cabinet as shown the arrow in Fig. 2.



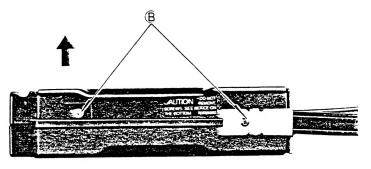


Fig. 2

#### RADIO BLOCK REMOVAL

1. Remove 2 screws © as shown in Fig. 3.

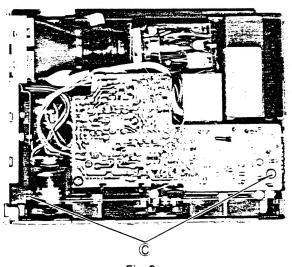


Fig. 3

#### ESCUTCHEON BLOCK REMOVAL

1. Pull the escutcheon block out of the cabinet,

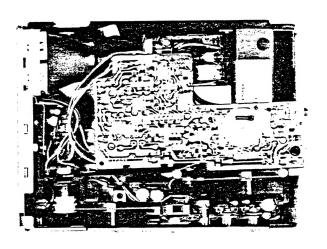


Fig. 4

#### MAIN RECEPTION AREAS

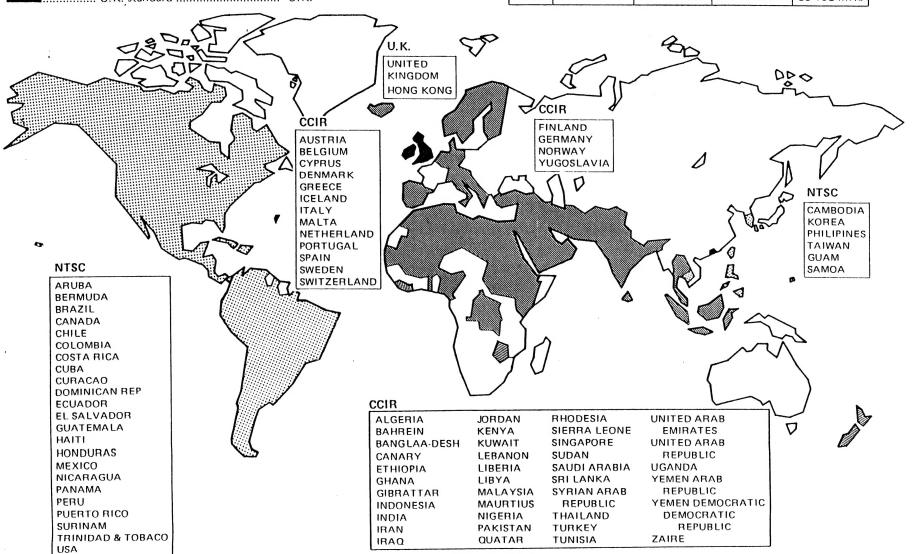
#### **Broadcasting system VS Area**

**VENEZUELA** 

Area	Broadcasting	Selector position
88888888	NTSC (USA) standard	USA
	CCIR B & G standard	
	U. K. standard	U.K.

#### Frequency Range

	VHF	UHF	AM	FM
USA	54-88 MHz 174-216 MHz	470-890 MHz	525-1605 kHz	88-108 MHz
EUR	47-68 MHz 174-230 MHz	470-862 MHz	525-1605 kHz	88-108 MHz
U.K.	***************************************	470-862 MHz	525-1605 kHz	88-108 MHz



## DIAL STRINGING

#### TV BLOCK

- 1. Turn the TV tuning shaft fully clockwise.
- 2. Follow steps 1 to 3 for correct stringing.
- 3. Wind the dial string to the tention roller (A) several turns, then turn the tention roller (B) counterclockwise seven times for getting appropriate tention.
- 4. Fix the dial string on the Tention roller (A) and TV pulley with bond.
- 5. Insert the tention roller (B) to groove on the TV bracket as shown in Fig. 9.
- 6. Mount the TV tuning knob and turn it fully counter-
- 7. Mount the TV Dial pointer at the start point on the TV roller (A) bracket as shown in Fig. 10.
- 8. Fix the TV dial pointer on the string with bond as shown in Fig. 11.

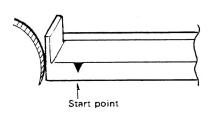


Fig. 10

#### RADIO BLOCK

- 1. Turn the pulley fully clockwise.
- 2. Follow the steps ① to ⑥ for correct stringing as shown in Fig. 12.
- 3. Mount the Radio tuning knob and turn it fully counterclockwise.
- 4. Mount the Radio Dial pointer at the start point on the Radio bracket as shown in Fig. 13.
- 5. Fix the Radio dial pointer on the string with bond as shown in Fig. 14.

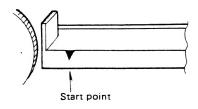
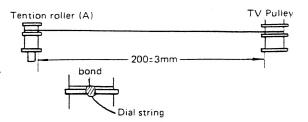


Fig. 13



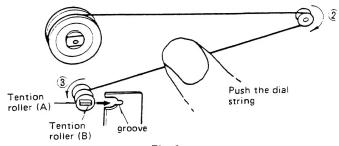


Fig. 9

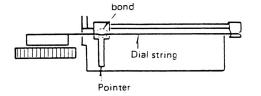
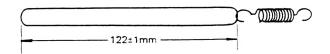
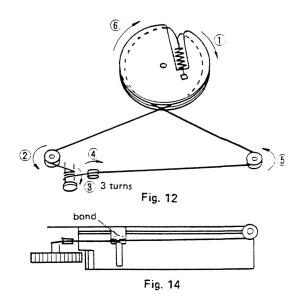


Fig. 11





## FIELD ALIGNMENT OF TV-

#### AVR (AUTOMATIC VOLTAGE REGULATOR)

Connect a voltmeter across TP91 and chassis. Make certain the B+ supply voltage is  $+4.8V \pm 0.05V$ . Adjust the AVR control VR71 if necessary.

#### YOKE POSITION

The yoke is secured to the neck of the picture tube with an angular clamp and screw. To Adjust the yoke and correct for picture tilt: Loosen the clamp screw, correct tilt, and retighten the clamp screw.

#### CENTERING

The picture centering device consists of two rings located at the rear of the yoke assembly. Each ring has a tab for ease of adjustment.

The tabs should be rotated and moved towards or away from each other until the picture is properly centered on the picture tube screen.

#### TO ADJUST THE R-F AGC PROPERLY

- 1. Tune in strong local station.
- Turn the R-F AGC control VR19 fully counterclockwise.
- 3. Observe the input signal, turn the R-F AGC control VR19 clockwise to the point where the snow noise disappears in the picture.
- 4. Check the reception with all channels. If the set does not get, clear picture on all channels, readjust the R-F AGC. (Assuming, that all channels have sufficient signal strength and are essentially free from interference.)

#### VERTICAL HEIGHT

Adjust the V-Height control VR32 until picture becomes symmetrical from top to bottom.

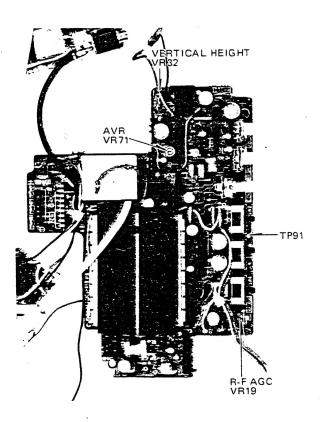


Fig. 15

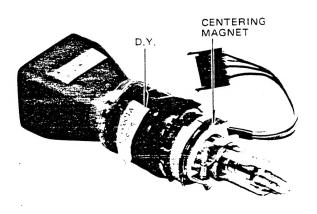


Fig. 16

## TELEVISION INDICATOR ALIGNMENT -

#### TELEVISION INDICATOR ALIGNMENT

- 1. Set the function selector to TV position and set the band selector to UHF position.
- 2. Set the system switch to USA position.
- 3. Set the pointer to the station of which is the lowest receivable channel in your area.
- 4. Adjust VR92 to get the best picture.
- 5. Set the pointer to the station of which is the highest receivable channel in your area.
- 6. Adjust VR93 to get the best picture.
- 7. Set the pointer same as step 3.
- 8. Readjust VR92 if necessary.
- 9. Set the band selector to VHF position.
- 10. Set the pointer to the station of which is the lowest receivable channel in your area.
- 11. Adjust the VR94 to get the best picture.
- 12. Set the pointer to the station of which is the highest receivable channel in your area.
- 13. Adjust the VR96 to get the best picture.

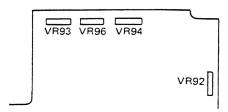


Fig. 17

## GENERAL ALIGNMENT-

#### Note:

- 1. During alignment, use a non-metallic screwdriver to prevent an unexpected short-circuit.
- The transformer core which has two tuning peak points. Adjust at the lower position as shown in Fig. 18.

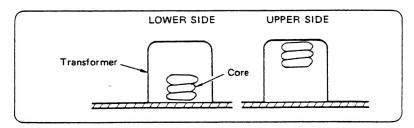


Fig. 18

## ALIGNMENT OF RADIO

# AM I-F & R-F ALIGNMENT (Equipment Required: Signal Generator, 16 ohm speaker or dummy load, output meter.)

	Output of signal ge Set Volume con Set selector to A	itrol to maximum.	no higher thar	n necessary to obtain an output reading. Maintain line voltage at 120 volts. <b>Note:</b> Adjustment controls are shown in Figure 19.				
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT	TZULDA	REMARKS		
1	Fashion loop of several	455 kHz (30% Mod. with 400 Hz)	Point of non- interference (on/about 600 kHz).		L1110 L1111			
2	turns of wire and radiate signal into loop of receiver.	600 kHz	Marked 600 kHz	Output meter across earphone jack.	L1100 (ANT coil)	Adjust for maximum output. Repeat steps (2) and (3).		
3		1400 kHz (30% Mod. with 400 Hz)	Marked 1400 kHz	. ·	(O) (OSC trim- mer) (A) (ANT trim- mer)			

Note: 1. Cement antenna coil with wax after completing alignment.

2. Make certain that speaker or dummy resistor (16  $\Omega$ ) is connected to the earphone jack when aligning.

#### FM I-F ALIGNMENT

#### EQUIPMENT REQUIRED

Signal generator that provides 10.7 MHz marker.

Sweep generator that provides 10.7 MHz and 400 kHz sweep width.

#### OSCILLOSCOPE

Set sweep selector of oscilloscope to EXTERNAL SWEEP.

Apply 60 Hz sweep signal from sweep generator to horizontal input terminals of oscilloscope.

Set selector to FM.

Set Volume control to minimum.

Maintain line voltage at 120 volts.

Note: Adjustment controls are shown in Figure 19.

	SWEEP GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT	AD- JUST	WAVE FORM	REMARKS
1 2	Connect to TP102 through FM DUMMY. Common to chassis  0.1 μF 10 KΩ  75Ω  To TP106  FM Dummy	10.7 MHz	Point of non- interference (on/about 90 MHz).	Connect vert. amp of scope to TP103. Common to chassis.	L1006 L1007	10.7MHz	Adjust for maximum amplitude and proper linearity.  Adjust for proper linearity.

#### FM R-F ALIGNMENT (Equipment Required: Signal Generator)

	, ,, , , , , , , , , , , , , , , , , , ,					
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT	ADJUST	REMARKS
3	Connect to EXT FMantenna terminal through FM dummy antenna. Common to chassis.	90 MHz (30% Mod. with 400 Hz)	Marked 90 MHz	Output meter across EXT	L1005 (FM OSC coil) L1004 (FM collector coil)	Adjust for maximum output.
4	0.1µF O EXT FM 75Ω antenna terminal	106 MHz (30% Mod. with 400 Hz)	Marked 106 MHz	SP jack	FC1 (FM OSC trimmer) FC2 (FM collector trimmer)	Repeat step (3) and (4).

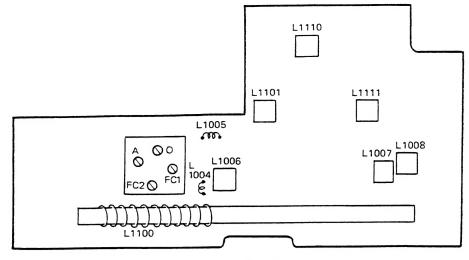


Fig. 19

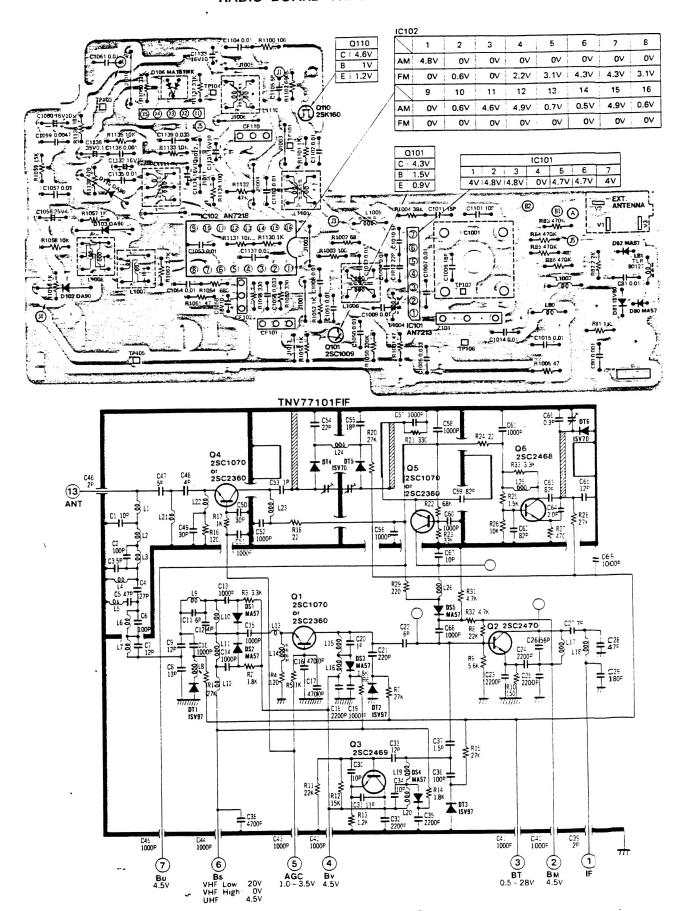
#### IN CIRCUIT RESISTANCE

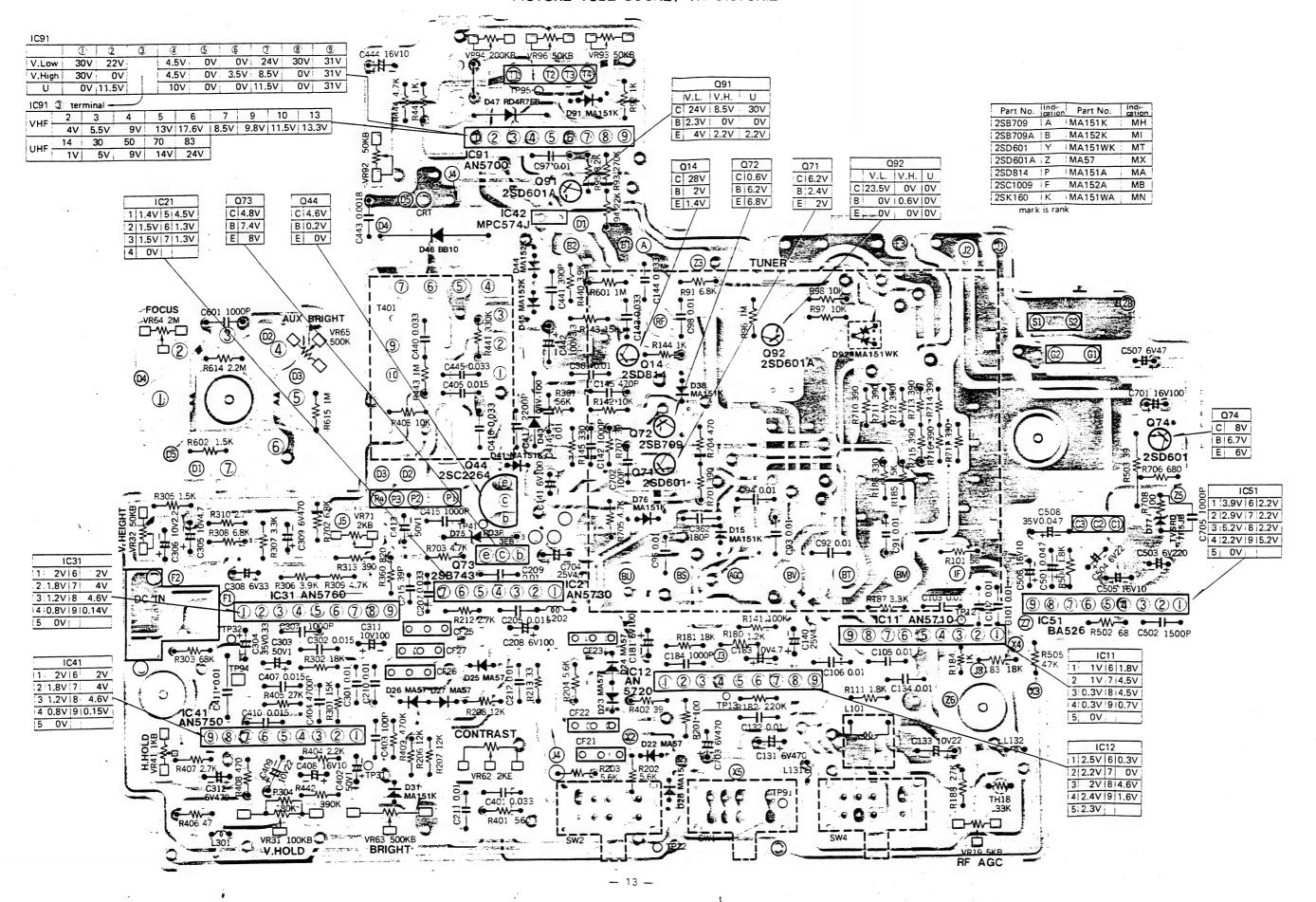
resistor No.	resistance	resistor No.	resistance	resistor No.	resistance	resistor No.	resistance	resistor No.	resistance
ΤV		R185	1.1ΚΩ	R360	820Ω	R703	зкΩ	R1050	330ΚΩ
R88	16ΚΩ	R186	330Ω	R361	56ΚΩ	R704	470Ω	R1051	1ΚΩ
R89	2.2ΚΩ	R187	1.4ΚΩ	R401	560Ω	R705	4.7ΚΩ	R1052	1ΚΩ
R90	16ΚΩ	R188	4.5ΚΩ	R402	39Ω	R706	680Ω	R1053	330Ω
R91	6.8KΩ	R201	100Ω	R403	10ΚΩ	R707	10Ω	R1054	360Ω
Doo	140	D202	E CKO	R404	2.2ΚΩ	R710	50Ω	R1055	330Ω
R92	. 1ΚΩ	R202	5.6ΚΩ	l .		l .	1		1 ΚΩ
R93	255ΚΩ	R203	5.6KΩ	R405	27ΚΩ	R711	50Ω	R1056	1ΚΩ
R94	22ΚΩ	R204	5.6KΩ	R406	47Ω	R712	50Ω	R1057	
R95	8.2ΚΩ	R206	12KΩ ·	R407	2.7ΚΩ	R713	50Ω	R1058	10ΚΩ
R96	1ΜΩ			R408	470Ω	R714	50Ω	R1059	39Ω
R97	10ΚΩ	R207	12ΚΩ	R <b>40</b> 9	140ΚΩ	R715	50Ω	R1060	33ΚΩ
R98	10ΚΩ	R208	12ΚΩ	R440	3.9ΚΩ	R716	50Ω	R1061	43Ω
R99	10ΚΩ	R212	2.7ΚΩ	R441	250ΚΩ	R717	50Ω	R1062	Ωο
R 101	56Ω	R213	31Ω	R442	330ΚΩ	RADIO		R1100	100Ω
R111	Ω0	R301	15ΚΩ	R443	1ΜΩ	R81	1ΚΩ	R1101	620Ω
									:
R 141	20ΚΩ	R302	18ΚΩ	R444	4.7ΚΩ	R82	2.2ΚΩ	R1102	680KΩ
R 142	10ΚΩ	R303	48ΚΩ	R445	1ΚΩ	R83	7.5KΩ	R1130	1ΚΩ
R 143	10ΚΩ	R304	60KΩ	R502	68Ω	R84	7.5KΩ	R1131	10ΚΩ
R 144	1ΚΩ	R305	15ΚΩ	R504	1.8ΚΩ	R85	7.5KΩ	R1132	11ΚΩ
R 145	330Ω	R306	3.9 KΩ	R505	47ΚΩ	R86	7.5KΩ	R1133	8.5ΚΩ
				R601	1ΜΩ				
R 180	1.2ΚΩ	R307	зкΩ	R602	1.5ΚΩ	R1001	47Ω	R1134	100Ω
R 181	17ΚΩ	R308	6.8KΩ	R614	2.2ΜΩ	R1002	68Ω	R1135	4ΚΩ
R 182	23ΚΩ	R309	3.5ΚΩ	R615	1ΜΩ	R1003	100Ω	R1136	18ΚΩ
R 183	14ΚΩ	R310	2.7Ω	R701	390Ω	R1004	39ΚΩ	R1137	33K <b>Ω</b>
R 184	1ΚΩ	R313	22Ω	R702	3.5K <b>Ω</b>	R1005	47Ω	R1138	470Ω

- Note: 1. Set power switch to OFF position.
  - 2. When measure the resister on the solder circuit board by ohm meter, it indicates difference value depend on the polality. In this case should be read high resistance value.

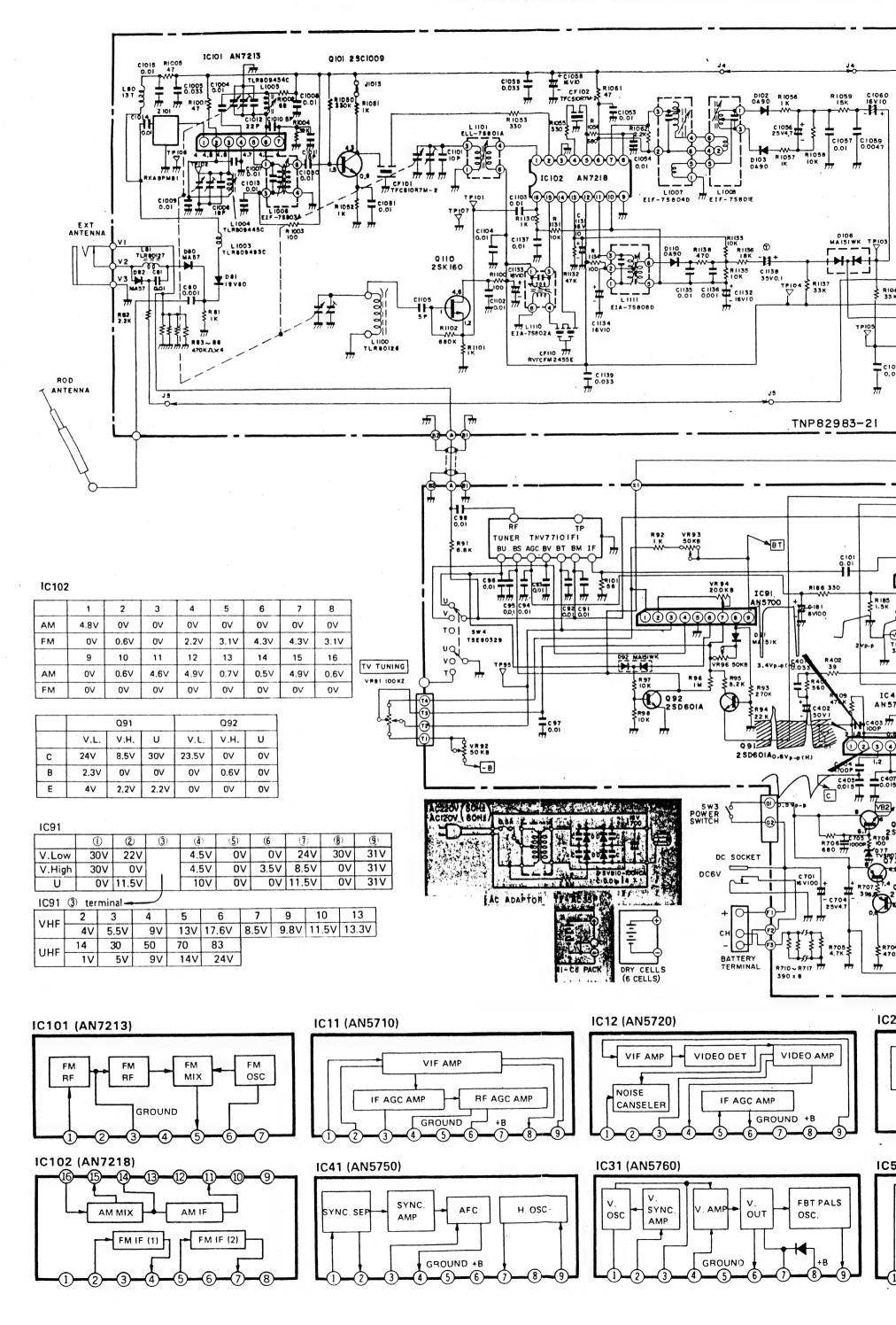
# CONDUCTOR VIEWS

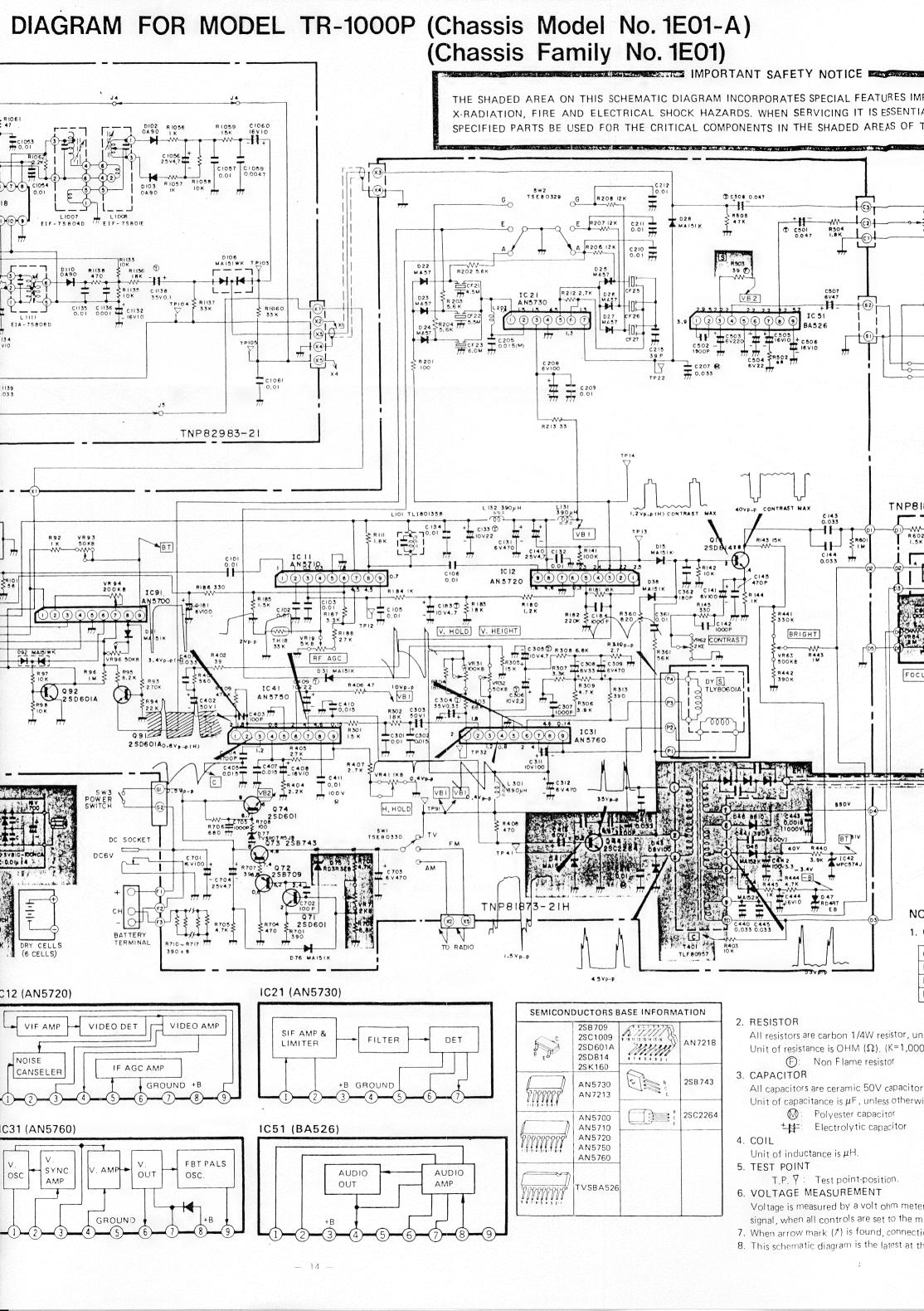
#### RADIO BOARD TNP82983-21

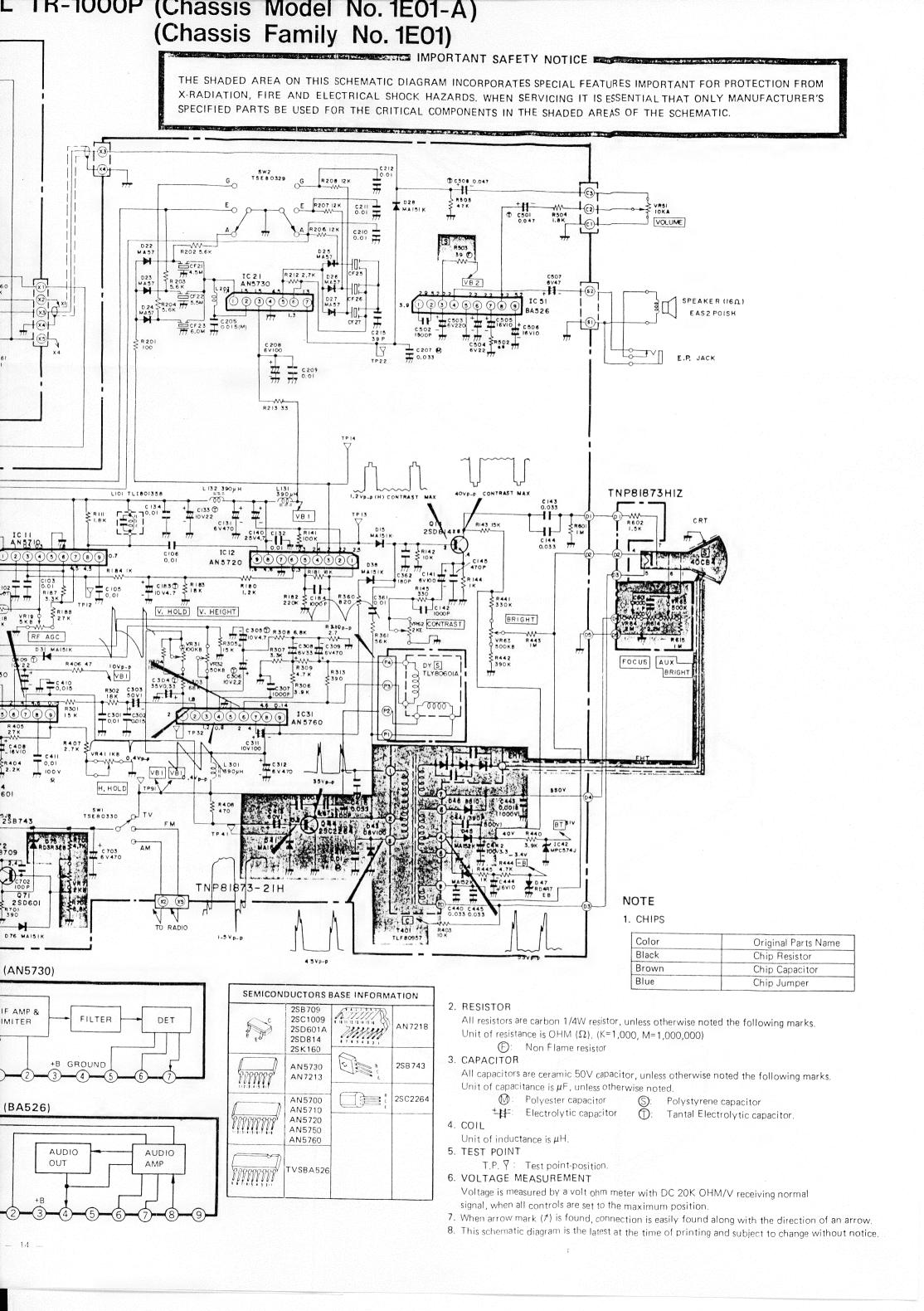


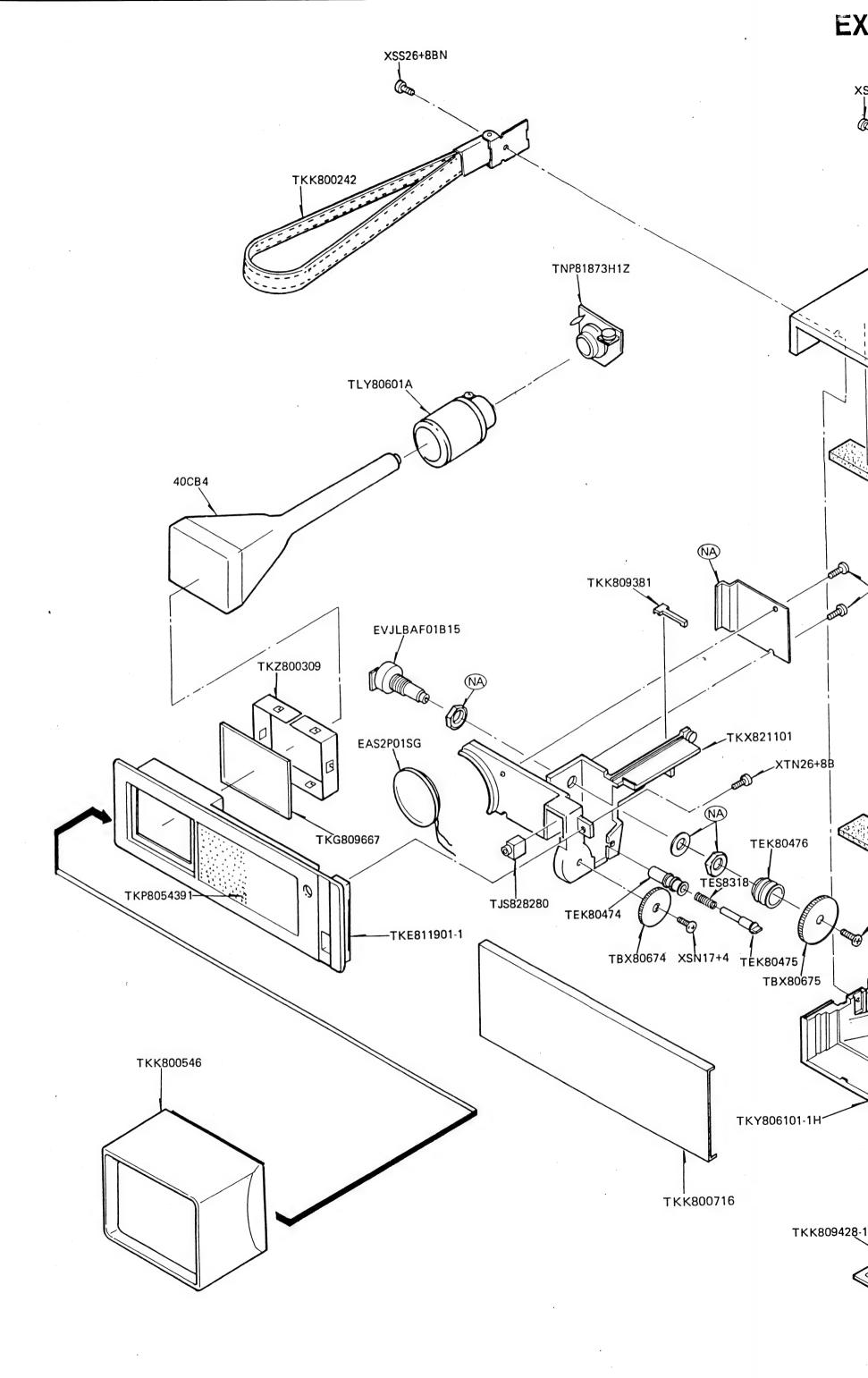


# SCHEMATIC DIAGRAM FOR MODEI

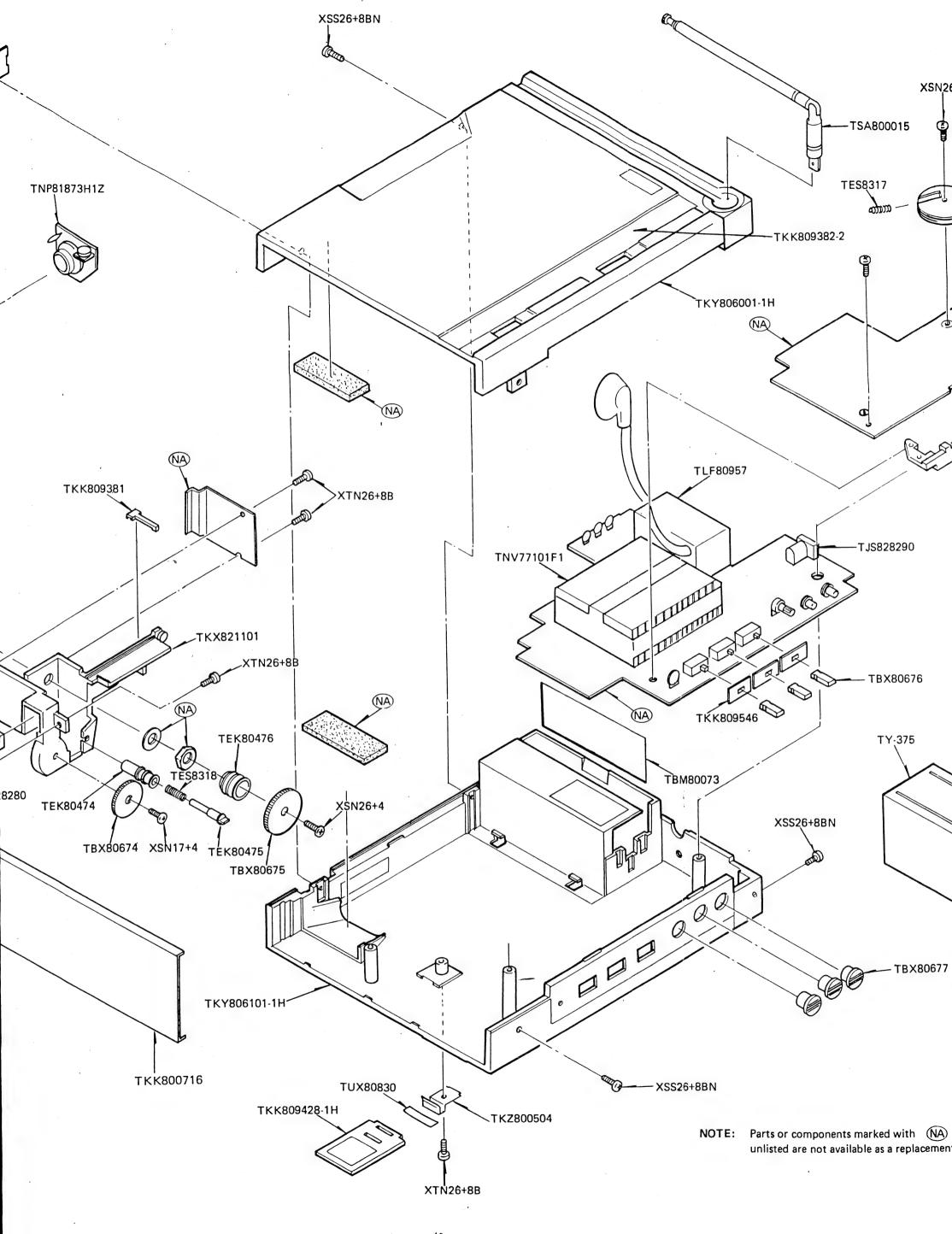




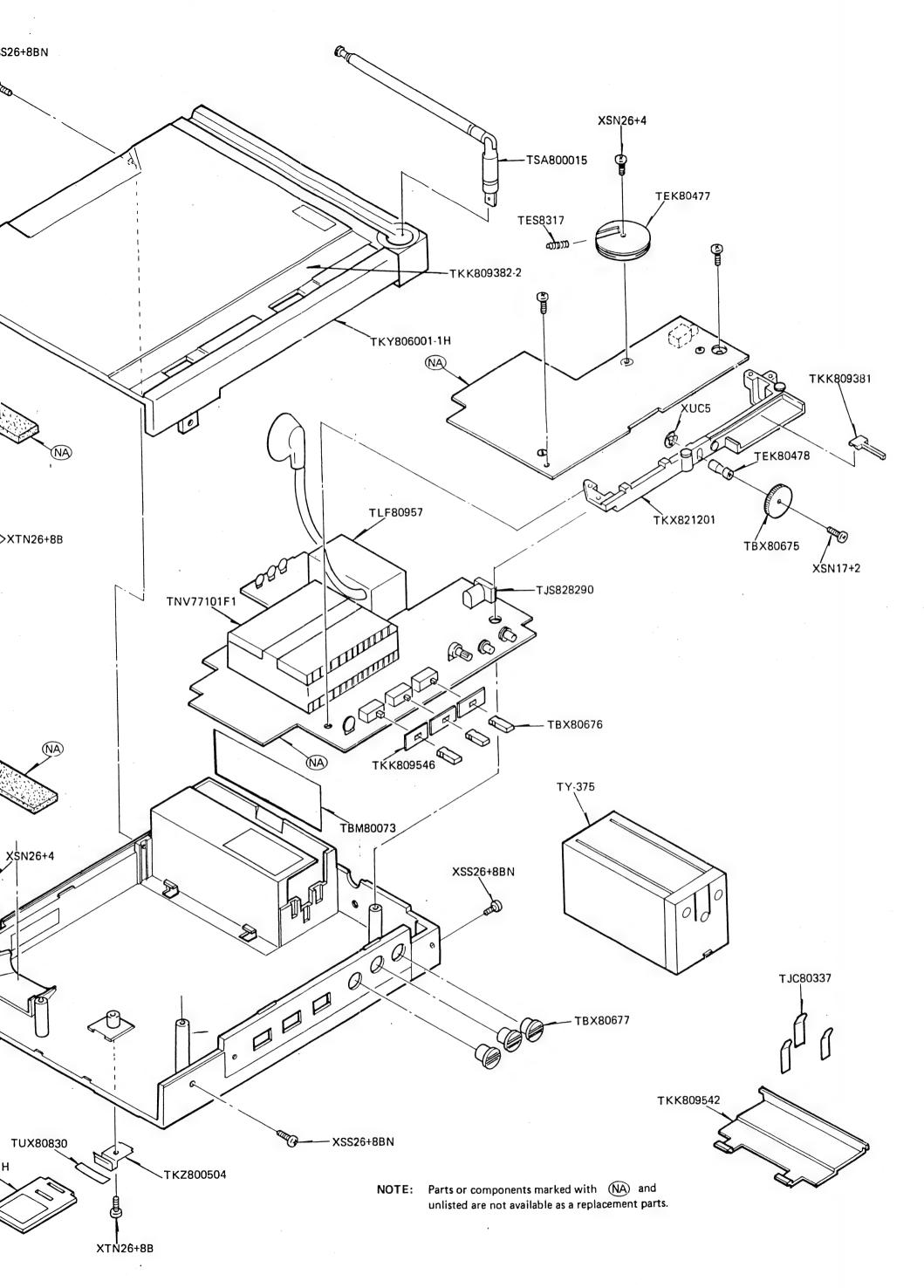




# **EXPLODED VIEW**



# PLODED VIEW



# REPLACEMENT PARTS LIST-

Important Safety Notice

Components identified by shaded area have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

Note: 1. Main board (TNP81873-21H) and radio board (TNP82983-21) are not available as a complete printed circuit board. The symbol marks (o) on the Replacement Parts List indicate chip parts.

			1		
	Part No.	Description	Ref. No.	Part No.	Description
,	ABINET AND	MAIN CHASSIS PARTS		TXAJT4P132	4-P Mini, Connector Ass'y (Tuning Control)
,	TKY806001-1H	Upper Cabinet Complete		XEH15A2-B1	Earphone
. 1	TKY806101-1H	Bottom Cabinet Complete		XSS26+8BN	Cabinet Mounting Screw
1	-	Escutcheon Complete		XSN17+2	Radio Knob Mounting Screw
	TKE811901-1			XSN17+4	On-Off Volume Knob Mounting Screw
	TKG809667	Front Protector (Window)		XSN26+4	Tuning Knob, Radio Pulley Mounting
	TKK800242	Hand Clip			Screw
	TKK800546	Lens Hood		XTN2+4B	On-Off Switch Control Mounting Screw
. 1	TKK809381	Dial Guide		XTN26+6B	Radio Bracket Mounting Screw
]	TKK809382	Dial Indication Plate		XTN26+8B	Set Leg. TV. Bracket Mounting
-	TKK809428-1H	Set Leg			Screw
	TKK809542	Battery Cover		XUC5FT	Tuning Shaft Mounting Spring
1	TKK800716	Front Protector		TPG801421	Outer Carton (4 Sets)
	TKK809546	Knob Barrier			
1	TKP8054391	Speaker Panel		TPC812771	Outer Carton (1 Set, Color)
1	TKX821101	TV. Bracket		TPC812761	Outer Carton (1 Set)
1	TKX821701	Radio Bracket		TXAPD11000P	Filler Complete
i i	TKZ800309	Picture Tube Bracket		TQE8580	Set Cover
	1 1/2000000	THE TOP DISCRET		TQB811338	Fun Bag
1.	TV70000E1	Cabinet Mounting Insert Nut		TQB810338	Instruction Book
	TKZ800951 TKZ800504	Cabinet Mounting Insert Nut Set Leg Holder		. 255.0500	
T.		-		TQB810159	Safety Instruction Sheet
	TUX80830	Set Leg Spring		TQD8118135	Warranty Card
1	TBM80073	Model Plate		TKK809382-2	Dial Indication Plate (Europe)
	TBX80674	On-Off Switch, Volume Knob		TKK804902	Accessory Bag
	TBX80675	TV/Radio Tuning Knob	T	NP81873HIZ	
-	TBX80676	Selector Switch Knob	C601	ECKD2H102KB2	Ceramic Capacitor 1,000PF ±10% 500V
1	TBX80677	Control Knob	R614	RRD18XK225	Chip Resistor 2.2MΩ ±10% 1/8W
1.	TEK80474	Tention Roller (A)	R615	RRD18XK105	Chip Resistor 1MΩ ±10% 1/8W
1.	TEK80475	Tention Roller (B)	VR64	EVTK0CA00B26	Focus Control 2MΩB
			VR65	EVNK0BA00B55	Aux. Bright. Control 500KΩB
1.	TEK80476	TV Pulley	R602	RRD18XK152	Chip Resistor 1.5KΩ ±10% 1/8W
-	TEK80477	Radio Pulley		TJS825050	Picture Tube Socket
1	TEK80478	Tuning Shaft			
1	TEK80479	Roller		L	
1	TEK80480	Roller Shaft		TNP8	1873-21H
	TES8317	Radio Coil Spring	Т	UNER	
1	TES8318	TV Coil Spring		TNV77101F1	u/v Combo Tuner
1.	40CB4	Picture Tube			
	TLY80601A	Deflection Yoke	10		
	TNP81873H1Z	Picture Tube Socket P.C.B. Complete	IC11	AN5710	V-IF Amp./AGC
1			IC12	AN5720	V-IF Det./Video Amp.
	•		IC21	AN5730	S-IF Amp./Det.
	EAS2P01SH	Speaker	IC31	AN5760	Vert. OSC./Amp./Output
- 1	TSA800015	Rod Anterma	IC41	AN5750	Sync, Sep. Amp./Horiz. AFC. Osc.
1	TNQ8306	Antenna Matching Box $(75\Omega-75\Omega)$			Drive
1	TNQ8307	Antenna Matching Box (75Ω-300Ω)			
	111420007	Artenno Matering Box (7000 00007)	IC42	TVSMPC574J	Zener
	TY-AC35P	AC Adaptor Complete	IC51	TVSBA526	Audio
	EVLM3BT12A14	On-Off, Volume Control 10KΩA	IC91	AN5700	Channel Selection
		Tuning Control 100KΩB			
VR51	EVJLBAF01B15 TLR80126	AM Bar Antenna	Т	RANSISTORS	-
VR51 VR91		MIVI DOI MITTERITO	1		1.15 0.15
VR51 VR91 L1100		Batton, Coss	1 () 12 ()		i Video Cilitout
VR51 VR91 L1100	TJB80919	Battery Case	014 0	A WAR / TOPA - CALL -F	Video Output
VR51 VR91 L1100	TJB80919		Q44	2SC2264Q	Horiz. Output
VR51 VR91 L1100	TJB80919 TJS828280	Earphone Socket	Q44 Q71 O	2SC2264Q 2SD601	Horiz. Output AVR
VR51 VR91 L1100	TJS828280 TJS898110	Earphone Socket Reserve Plug	Q44 Q71 0 Q72 0	2SC2264Q 2SD601 2SB709	Horiz. Output AVR AVR
VR51 VR91 L1100	TJB80919 TJS828280	Earphone Socket Reserve Plug 3-P Mini. Connector Ass'y(Volume	Q44 Q71 O	2SC2264Q 2SD601	Horiz. Output AVR
VR51 VR91 L1100	TJB80919  TJS828280  TJS898110  TXAJT3P301	Earphone Socket Reserve Plug 3-P Mini. Connector Ass'y(Volume Control)	Q44 Q71 O Q72 O Q73	2SC2264Q 2SD601 2SB709 2SB743	Horiz. Output AVR AVR AVR
VR51 VR91 L1100	TJS828280 TJS898110	Earphone Socket Reserve Plug 3-P Mini. Connector Ass'y(Volume	Q44 Q71 O Q72 O Q73	2SC2264Q 2SD601 2SB709 2SB743 2SD601	Horiz. Output AVR AVR AVR AVR
VR51 VR91 L1100	TJB80919  TJS828280  TJS898110  TXAJT3P301	Earphone Socket Reserve Plug 3-P Mini. Connector Ass'y(Volume Control) 2-P Mini. Connector Ass'y (Volume	Q44 Q71 O Q72 O Q73	2SC2264Q 2SD601 2SB709 2SB743 2SD601 2SD601A	Horiz. Output AVR AVR AVR

Ref. No	ο.	Part No.	o. Description			Ref. N	ο.	Part No.	De	scription		
	$\dashv$											<b>50</b> 1
						C143	0	ECUX1H333ZF	Chip	0.033µF		50V
	1					C144	0	ECUX1H333ZF	Chip	0.033µF		50V
						C145	0	ECUX1H471M-D	Chip	470PF	±20%	50V
	DI	ODES				C181		ECEA0JK101	- Electrolytic	100μF		6.3V
D15	1	MA151K	Video			C183		ECSF1AM475C	Tantalum	4.7µF		10∨
D22	1	MA57	Switching								±20%	50V
D23	1	MA57	Switching			C184	0	ECUX1H102MD	Chip	1,000PF 0.015#F	±20%	50V
D24	- 1	MA57	Switching		1	C205	0	ECUX1H153MD	Chip	0.015µF 0.033µF	+80 %	50V
D25	- 1	MA57	Switching			C207	0	ECUX1H333ZF	Chip Electrolytic	0.033μ1 100μF		6.3V
						C208		ECEA0JK101	Chip	0.01µF	+80 %	50V
D26	0	MA57	Switching			C209	0	ECUX1H103ZF	Cinp	0.01		
D27	0	MA57	Switching			C212		ECUX1H103ZF	Chip	0.01µF	+80 %	50V
D28	0	MA151K	Switching			C210	0	ECUX1H103ZF	Chip	0.01µF	+80 %	50V
D31 ·	0	MA151K	Switching			C211 C212	0	ECUX1H103ZF	Chip	0.01µF	+80 %	50V
D38	0	MA151K	Blanking			C212	0	ECUX1H390KC	Chip	39PF	±10%	50V
		=		a-1,		C301	0	ECUX1H103MD	Chip	0.01µF	±20%	50V
D41	0	MA151K	Pulse Clipper		·	C301		ECOXIIIIOSIVID	Citip	0.0		
D43		TVS08V-100	Damper			C302		ECUX1H153MD	Chip	0.015µF	±20%	50V
D44	0	MA152K	Rectifier			C302		ECEA1HK010EJ	Electrolytic	1µF		50V
D45		MA152K	Rectifier			C304		ECSF1VM334C	Tantalum	0.33µF		35V
D46		TVSBB10	Rectifier			C305		ECSF1AM475C	Tantalum	4.7µF		10V
	1					C306		ECSF1AM225C	Tantalum	2.2µF		10V
D47		TVSRD4R7EB	Zener		ranger of	0000						
D75		TVSRD3R3EB	Zener	pr		C307	O	ECUX1H102MD	Chip	1,000PF	±20%	40V
D76	0	MA151K	Switching			C308		ECEA0JK330	Electrolytic	33 <b>µ</b> F		6 <b>.</b> 3V
D77		TVSRD7R5JB	Zener			C309		ECEA0JV471W	Electrolytic	470µF		6.3V
D91	0	MA151K	Switching			C311		ECEA1AS101SW	Electrolytic	100µF		10V
D92	0	MA151WK	Switching			C312		ECEA0JV471W	Electrolytic	470µF		6.3v
	1					C361	0	ECUX1H103MD	Chip	0.01µF	±20%	50V
	CĆ	DILS & TRANSF				C362	0	ECUX1H181K	Chip	180PF	±10%	50V
L101		TLI801358	V-IF Trans.			C401	0	ECUX1H333ZF	Chip	0.033µF	+88 %	50\
L131		TLQ391K146C	Peaking Coil			C402		ECEA1HK010EJ	Electrolytic	1μF		50\
L132		TLQ391K146C	Peaking Coil			C403	0	ECUX1H101K	Chip	100PF	±10%	50\
L202	I	TLQ100K146	Peaking Coil				_					
L301		TLQ391K146C	Peaking Coil			C404	0	ECUX1H472MD	Chip	4,700PF	±20%	
T 404	.	TL 500057	Flyback Trans.		The Contract of the Contract o	C405	0	ECUX1H153MD	Chip	0.015µF	±20%	
T401		TLF80957	Flyback Halls.	وستهرز بودر بري	• ' •	C407	0	ECUX1H153MD	Chip	0.015µF	±20%	
		APACITORS	I			C408		ECEA1CK100	Electrolytic	10μF	2	16\
C91	ol	ECUX1H103ZF	Chip	0.01µF	±80 % 50V	C409		ECSZ10EF22N	Tantalum	22µF		10\
C92		ECUX1H103ZF	Chip	0.01µF	180 % 50V						+80 n/	
C93	0	ECUX1H103ZF	Chip	0.01µF	±38 % 50∨	C410	0	ECUX1H153ZF	Chip	0.015µF	+80 % -20 %	50\
C94 .	0	ECUX1H103ZF	Chip	0.01µF	#28 % 50V	C411		ECQK1103JZ	Polyester Pol	ypropylene 0.01µF	±5%	100
C95	0	ECUX1H103ZF	Chip	0.01µF	128 % 50V	-345		FOEATUKOTOEL	Electrolytic	1μF	-:TS:	50
Coo		ECOX III TOOL				C413		ECEA1HK010EJ		0.01µF	±10%	
C96	0	ECUX1H103ŽF	Chip	0.01µF	±80 % 50V	C414	_	ECUX1H103MD	Polyester	1,000PF	±10%	
C97	0	ECUX1H103ZF	Chip	0.01µF	180 % 50V	C415	0	ECUX1H102MD	Chip	1,00017		
C98	0	ECUX1H103ZF	Chip	0.01µF	180 % 50V	CASE	^	ECUX1H333ZF	Chip	0.033µF	+80 % -20 %	50
C101	0	ECUX1H103ZF	Chip	0.01µF	±88 % 50∨	C416 C417	0	***	Chip	2200PF	±20%	
C102	0	ECUX1H103ZF	Chip	0.01µF	±28 % 50∨	C417	0		Chip	0.033µF	+80 %	
			,			C441	0	ECKD2H391KB9	Ceramic	390PF	±10%	
	0	ECUX1H103ZF	Chip	0.01µF	±80 % 50∨	C441		ECEA2AS3R3	Electrolytic	3.3µF		100
C103	0		Chip	0.01µF	±80 % 50∨	2		LOCAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE			أعاول واستقدماولتها متوازيه	
C103 C105			Chip	0.01µF	*80 % 50V	C443		ECKC3A182MD	Ceramic	1,800PF	±20%	1K
	0		Floreschusio	470µF	6.3V	C444		ECEA1CK100	Electrolytic	10μF		16
C105 C106		ECEA0JV471W	Electrolytic		*80 % 50V	C445	0	1	Chip	0.033µF	÷88 %	50
C105 C106 C131		ECEA0JV471W ECUX1H103ZF	Chip	0.01µF	-20 10 500		_					35
C105 C106	0			0.01µF	-20 % 500	11		ECSF1VM473	Tantalum	0.047µF		
C105 C106 C131	0			0.01μF 22μF	10V	C501	0		Tantalum Chip	0.047µF 1500PF	±20%	
C105 C106 C131 C132	0	ECUX1H103ZF ECSZ10EF22N	Chip		10V -20 % 50V	11	0				±20%	6 50
C105 C106 C131 C132	0	ECUX1H103ZF ECSZ10EF22N	Chip	22µF	10V -20% 50V 25V	C501 C502		ECUX1H152MD				6.3
C105 C106 C131 C132 C133 C134	0	ECUX1H103ZF ECSZ10EF22N ECUX1H103ZF	Chip Tantalum Chip	22µF 0.01µF	10V -20 % 50V	C501 C502 C503			Chip	1500PF		6 50
C105 C106 C131 C132 C133 C134 C140	0	ECUX1H103ZF  ECSZ10EF22N  ECUX1H103ZF  ECEA1Ek4R7EJ  ECEA0JK101	Chip Tantalum Chip Electrolytic	22µF 0.01µF 4.7µF	10V -20% 50V 25V	C501 C502		ECEA0JV221W	Chip Electrolytic	1500PF 220µF		6.3

Ref.No.		Part No.	D	escription	Description				Part No.	Description			
C506		ECEA1CK100	Electrolytic	10µF		16V	R308	0	RRD18XK682	Chip	6.8KΩ	±10%	
C507		ECEA0JK470	Electrolytic	47μF		6.3V	R309	0	RRD18XK472	Chip	$4.7$ K $\Omega$	± 10%	
C508	- 1	ECSF1VM473	Tantalum	0.047µF		35V	R310	0	RRD18XK2R7	Chip	$2.7\Omega$	±10%	
				100μF		16V	R313	0	RRD18XK391	Chip	$390\Omega$	±10%	
2701	- 1	ECEA1CV101W	Electrolytic Chip	100PF	±10%	50V	R360	0	RRD18XK821	Chip	820Ω	± 10%	1/8V
2702	0	ECUX1H101K	Electrolytic	470µF	11070	6.3V							. (0)
2703		ECEA0JV471W	Electrolytic	4702		0.0	R361	0	RRD18XK563	Chip	56KΩ	±10%	
							R401	0	RRD18XK561	Chip	560Ω	±10%	
C704		ECEA1EK4R7EJ	Electrolytic	4.7μF		25V	R402	0	RRD18XK390	Chip	39Ω	±10%	
C705		ECUX1H102MD	Chip	1000PF	±20%	50V	R403	0	RRD18XK103	Chip	10ΚΩ	±10%	
2700		ECOXTITIOZIND	Cinp	1000.	220.0		R404	0	RRD18XK222	Chip	2.2ΚΩ	±10%	1/61
<del></del>	DE	SISTORS	<u> </u>				R405	0	RRD18XK273	Chip	27ΚΩ	±10%	1/8
	- 1				4.00/	4 (0)4(	R406	0	RRD18XK470	Chip	47Ω	±10%	1/81
R91	- 1	RRD18XK682	Chip	6.8KΩ	±10%		R407	0	RRD18XK272	Chip	$2.7$ K $\Omega$	±10%	1/81
392	0	RRD18XK102	Chip	1ΚΩ	±10%	1/8W	R408	0	RRD18XK471	Chip	470Ω	±10%	1/8V
							R409	0	RRD18XK474	Chip	470 K Ω	±10%	1/8
R <b>9</b> 3	0	RRD18XK274	Chip	270ΚΩ	±10%								
R94	0	RRD18XK223	Chip	22ΚΩ	±10%		R440	0	RRD18XK392	Chip	3.9KΩ	±10%	1/81
R <b>9</b> 5	- 1	RRD18XK822	Chip	8.2KΩ	±10%		R441	0	RRD18XK334	Chip	330KΩ	±10%	1/8V
<b>79</b> 6	0	RRD18XK105	Chip	1ΜΩ	±10%		R442	0	RRD18XK394	Chip	390KΩ	±10%	1/8
<b>79</b> 7	0	RRD18XK103	Chip	10KΩ	±10%	1/8W	R443	0	RRD18XK105	Chip	1ΜΩ	±10%	1/80
							R444	0	RRD18XK472	Chip	4.7KΩ	±10%	1/80
R <b>9</b> 8	0	RRD18XK103	Chip	10ΚΩ	±10%	1/8W	R445	0	RRD18XK102	Chip	1 K-Ω	±10%	1/80
R101	0	RRD18XK560	Chip	$56\Omega$	±10%	1/8W	R502	0	RRD18XK680	Chip	$68\Omega$	±10%	1/8
R111	0	RRD18XK182	Chip	1.8KΩ	±10%	1/8W	R503		ERD25FJ390	Carbon	39Ω	±5%	1/4W
R141	0	RRD18XK104	Chip	100ΚΩ	±10%	1/8W	R504	0	RRD18XK182	Chip	1.8ΚΩ	±10%	
							R505	0	RRD18XK473	Chip	47 KΩ	±10%	1/8\
R142	0	RRD18XK103	Chip	10ΚΩ	±10%	1/8W	R601	0	RRD18XK105	Chip	1ΜΩ	±10%	1/8\
R143	0	RRD18XK153	Chip	15ΚΩ	±10%	1/8W	11001		THIBTOXICTOS	Cp			
R 144	0	RRD18XK102	Chip	1ΚΩ	±10%	1/8W	R701	0	RRD18XK391	Chip	390Ω	±10%	1/8
R 145	0	RRD18XK331	Chip	$330\Omega$	±10%	1/8W	R702	0	RRD18XK682	Chip	6.8KΩ	_±10%	1/8
R180	0	RRD18XK122	Chip	1.2ΚΩ	±10%	1/8W	R703	0	RRD18XK472	Chip	4.7ΚΩ		
							R704	0	RRD18XK471	Chip	470Ω	±10%	
R 181	0	RRD18XK183	Chip	18ΚΩ	±10%	1/8W	R705	0	RRD18XK472	Chip	4.7ΚΩ	±10%	1/8
R 182	0	RRD18XK224	Chip	220ΚΩ	±10%								
R183	0	RRD18XK183	Chip	18ΚΩ	±10%		R706	0	RRD18XK681	Chip	$680\Omega$	±10%	1/8
R184	0	PRD18XK102	Chip	1ΚΩ	±10%		R707	0	RRD18XK390	Chip	39Ω	±10%	1/8
R185	0	RRD18XK152	Chip	1.5ΚΩ	±10%	1/8W	R708		ERD10TJ101	Carbon	100Ω	±5%	1/8
							R710	0		Chip	$390\Omega$	±10%	6 1/8
R186	0	RRD18XK331	Chip	330Ω		1/8W	R711	0		Chip	390Ω	±10%	6 1/8
R187	0	RRD18XK332	Chip	3.3K Ω		1/8W	R712	0		Chip	$390\Omega$	± 10%	6 1/8
R188	0	RRD18XK273	Chip	27ΚΩ		1/8W			0.000.000.0000				
R201	0	RRD18XK101	Chip	100Ω		1/8W	R713	0	RRD18XK391	Chip	390Ω	±10%	6 1/8
R202	0	RRD18XK562	Chip	5.6KΩ	±10%	1/8W	R714	0	RRD18XK391	Chip	$390\Omega$	±10%	6 1/8
	1				4.00/	4 (0) 4 (	R715	0	RRD18XK391	Chip	390Ω	±10%	6 1/8
R203	0	_	Chip	5.6ΚΩ		1/8W	R716	0	RRD18XK391	Chip	$390\Omega$	±109	6 1/8
R204	0	RRD18XK562	Chip	5.6KΩ	±10%	1/8W	R717	0	RRD18XK391	Chip	390Ω	±109	6 1/8
R206	0	RRD18XK123	Chip	12ΚΩ	±10%	1/8W							
R207	0		Chip	12ΚΩ	±10%	1/8W		C	ERAPS	1			
							CF21		EFCS4R5MSM	S-IF Input Fil-	ter		
R208	0	RRD18XK123	Chip	12ΚΩ	±10%	1/8W	CF22		EFCS5R5MSM	S-IF Input Fil-			
R212	0		Chip	2.7ΚΩ	±10%	1/8W	CF23		EFCS6R0MSM	S-IF Input Fil-	ter		
R213	0		Chip	33Ω	±10%	1/8W	CF25		EFCS4R5MCM	Discriminator			
R301	0		Chip	15ΚΩ	±10%	1/8W	CF26		EFCS5R5MCM	Discriminator			
R302	0	RRD18XK183	Chip	18ΚΩ	±10%	1/8W	13		550000011011	Dispelsed			
D.C.	_	DDD10VV602	Chip	68KΩ	+10%	1/8W	CR27		EFCS6R0MCM	Discriminator			
R303	0	RRD18XK683		180KΩ		1/8W		C	ONTROLS				
R304	0		Chip	15ΚΩ		1/8W	11		EVNKOBAOOB53	RF AGC	5ΚΩΒ		
R305	0		Chip	3.9KΩ		1/8W	11		EVLV0FA00B15	Vert. Hold	100ΚΩΒ		
R306	0		Chip	3.9KΩ		1/8W	11		EVNA1AA00B54	Vert. Hight	50ΚΩΒ		
R307	0	RRD18XK332	Chip	3.3832	± 1076	.,,,,,,,,	VR41		EVNJ0BA00B13	Horiz, Freq.	1ΚΩΒ		
		i					11		EVJ7KA30923X	Contrast	2ΚΩΧ		
		1	· ·				VR62		EVJ/KMANM/		2110011		

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Ref. No	o.	Part No.	Description		Ref. No.	$\cdot  $	Part No.	D	escription		
	$\top$							Oh:-	2225	+ 1 00/	50V
VR63		EVLV0FA00B55	Bright 500KΩB		C1012	- 1	ECUX1H220KC	Chip	22PF	±10%	50V
VR71	- 11	EVNA6AA00B23	AVR 2KΩB	.	C1013	- 1	ECUX1H103ZF	Chip	0.01µF	+80 %	
VR92		EVNA1AA00B54	Sub Tuning 50KΩB	ll ll	C1014		ECUX1H103ZF	Chip	0.01µF	+80 %	50V
√R93	- 1	EVNA1AA00B54	Sub Tuning 50KΩB		C1015	1	ECUX1H103ZF	Chip	0.01µF	+80 %	50V
√R94	1	EVNA1AA00B25	Sub Tuning 200KΩB		C1050		ECUX1H103ZF	Chip	0.01µF	+80 %	50V
√R95	١,	EVNA1AA00B54	Sub Tuning 50KΩB		C1051		ECUX1H103ZF	Chip	0.01µF	+80 % -20 %	50V
VH95	- 1.	LVIVATAAOODS	Joe vaning		C1053		ECUX1H103ZF	Chip	0.01µF	+80 %	50∨
	OTI	HER PARTS			C1054		ECUX1H103ZF	Chip	0.01µF	+80 %	50\
		ERTD2ZHL333S	Thermistor		C1055		ECUX1H333ZF	Chip	0.033µF	+80 %	50\
TH18		TJS828290	DC. Socket		C1056		ECEA1ES4R7	Electrolytic	4.7µF		25\
	1		2-P Mini. Connector Plug		•						
	- 1	TJS868420 TJS868430	3-P Mini. Connector Plug	ll	C1057	ol	ECUX1H103ZF	Chip	0.01µF	+80 %	50\
	1	TJS868260	4-P Mini. Connector Plug		C1058		ECEA1CK100	Electrolytic	10µF		16\
	- 1	TSE80330	TV/FM/AM Selector Switch		C1059		ECUX1H472MD	Chip	0.0047µF	-28 %	50\
SW1		13560330	TV/TIVI/AIVI SSIGSTER STATES		C1060		ECEA1CS100	Electrolytic	10µF		16\
		TCE00220	A/E/G Formula Selector Switch	.			ECUX1H103ZF	Chip	0.01µF	+80 %	50\
SW2		TSE80329	u/v Selector Switch		C1001 (		ECOX IIII OCE	0			
SW4	- 1	TSE80329			C1101		ECUX1H100KC	Chip	10PF	±10%	50\
	1	TJC80337	Battery Terminal 5-P Mini. Connector Ass'y	- 1			ECUX1H103ZF	Chip	0.01µF	- , - , -	50
		TXAJT5P060	5-P Mini. Connector Ass y		C1102	- 1	ECUX1H103ZF	Chip	0.01μF	+80 %	50
		<b>T1100</b>	2222 24	1	_			Chip	0.01µF	+80 %	50
		TNP8	2983-21		_	- 1	ECUX1H103ZF	1	5PF	±0.5PF	
	I.C				C1105		ECUX1H050DC	Chip	SFF	10.5	50
C101		- AN7213	FM. Front End		C1131	1	ECEA1CK100	Electrolytic	10µF		16
IC101	- 1	AN7218	AM RF, IF,/FM IF	1	C1132		ECEA1CK100	Electrolytic	10µF		16
10102	- 1	AN7210			C1133		ECEA1CK100	Electrolytic	10µF		16
	TD	ANSISTORS			C1134		ECEA1CK100	Electrolytic	10μF		16
2101		2SC1009	FM IF, AMP. (F3, F4)		C1135		ECUX1H103ZF	Chip	0.01µF	+80 %	50
Q110	,	2SK160	AM RF AMP. (K6, K5)						_	000/	
					C1136	- 1	ECUX1H102MD	Chip	1000pF	±20%	50
	DI	ODES	1		C1137	0	ECUX1H103ZF	Chip	0.01µF	-20 %	50
D80		MA57	Switching		C1138		ECSF35ER1	Tantalum	0.1µF	+800/	35
D81		TVS1SV80	Switching	1	C1139	0	ECUX1H333ZF	Chip	0.033µF	- 20 %	50
D82	0	MA57	Switching	1							
D102		OA91	FM Det.			_					
D103	- 1	OA91	FM Det.	ì	1	RI	ESISTORS	ı			
D106	0	MA151WK	Switching		R81	이	RRD18XK102	Chip	1ΚΩ	±10%	
					R82	0	RRD18XK222	Chip	2.2ΚΩ	±10%	
D110		OA91	AM Det.		R83	0	RRD18XK474	Chip	470ΚΩ	±:10%	
	CC	ILS & TRANSI	ORMERS		R84		RRD18XK474	Chip	470KΩ	±10%	
L80	Ī	TLR809493C	RF Choke Coil		R85	0	RRD18XK474	Chip	470ΚΩ	±10%	1/8
L81	l	TLR80127	Loading Coil		R86	ol	RRD18XK474	Chip	470ΚΩ	±10%	1/81
L1003	- 1	TLR809455C	Loading Coil		R1001	- 1	RRD18XK470	Chip	47Ω		
L1003		TLR809445C	FM RF Coi!		R 1002	- 1	RRD18XK680	Chip	68Ω		
L1004	- 1	TLR809454C	FM OSC Coil		R1003	- 1	RRD18XK101	Chip	100Ω		
		E1F7S803A	FM IF Trans.		R1003		RRD18XK393	Chip	39KΩ		
L1006			FM Det. Coil								
L1007		E1F7S804D	FM Det. Coil		R1005	- (	RRD18XK470	Chip	47Ω		
L1008		E1F7S801E	AM Osc Coil		R1050	- 1	RRD18XK334	Chip	330KΩ		
L1101 L1110		ELL7S801A	AM IF TRANS.		R1051	- 1	RRD18XK102	Chip	1ΚΩ		
L1111		E1A7S802A E1A7S808D	AM Det. Coil		R1052		RRD18XK102	Chip	1ΚΩ		
	CA	APACITORS			R1053	- 1	RRD18XK331	Chip	330Ω		
C80	0	ECUX1H102MD	Chip 1,000PF ±20%	6 50∨	R1054	- 1	RRD18XK681	Chip	680Ω		
C81	0	ECUX1H103ZF	Chip 0.01µF +80%		R1055	0	RRD18XK331	Chip	330Ω		
C1001	٦	PVCLC416-1	Poly. Variable		R1056		RRD18XK102	Chip	1ΚΩ		
C1004	0	ECUX1H103ZF	Chip 0.01µF +80 %	50V	R1057			Chip	1ΚΩ		
C1005	0	ECUX1H1032F	Chip 0.033µF ±20 %		R1058	0	RRD18XK103	Chip	10ΚΩ		
C1005	0	ECUX1H180KC	Chip 18PF ±10%		R1059		RRD18XK153	Chip	15ΚΩ	±10%	1/8
5,000		ECONTHIOURC	15.1. 170%		R1060	- 1		Chip	33KΩ	±10%	1/8
C1007	ار	ECHV1H1027E	Chip 0.01µF ±80 %	6 50∨	R1061	- 1		Chip	47Ω		1/8
C1007	- 1	ECUX1H103ZF			R1062			Chip	2.2ΚΩ		
C1008	0	ECUX1H103ZF	1		11						
	0	ECUX1H103ZF	Chip 0.01µF ±20 %		R1100	0	RRD18XK101	Chip	100Ω		
			I Chim is Ent. The			-		O1: 1	110	± 1 OP/	. 1/
C1010 C1011	,	ECUX1H050DC ECUX1H150KC	Chip	PF 50∨ % 50∨	R1101	0	RRD18XK102	Chip	1ΚΩ	±10%	1/8

Ref.No.	Part No.	Description	1	Ref. No.	Part No.	Description
R1130 C R1131 C R1132 C R1133 C R1133 C R1135 C R1136 C R1137 C R1138 C	RRD18XK103 RRD18XK183 RRD18XK333 RRD18XK471	Chip         680 K Ω           Chip         1 K Ω           Chip         10 K Ω           Chip         47 K Ω           Chip         10 K Ω           Chip         10 K Ω           Chip         18 K Ω           Chip         33 K Ω           Chip         470 Ω           Chip         0 Ω	±10% 1/8W ±10% 1/8W ±10% 1/8W ±10% 1/8W ±10% 1/8W ±10% 1/8W ±10% 1/8W ±10% 1/8W ±10% 1/8W ±10% 1/8W	Z101 CF101 CF102 CF110	THER PARTS  RXABPMB1  TFCS10R7M-2  TFCS10R7M-2  RVFCFM2455E  TJS828300  TJS868550	FM BPF 10.7MHz Filter 10.7MHz Filter Filter Ext. Antenna Socket 5-P L-Tipe Mini. Connector Plug

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